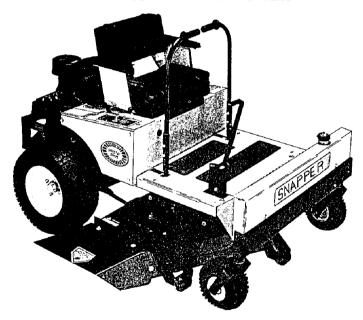
Safety Instructions & Operator's Manual for



UNISTAT DRIVE ZERO TURNING RADIUS COMMERCIAL RIDING MOWER



Thank you for buying a SNAPPER product! Your SNAPPER Zero Turning Radius Riding Mower was designed and built to provide long and satisfactory service. Keep in mind that it, like any other mechanical device, can be potentially dangerous if used improperly and hat no accident prevention program can be successful without the wholehearted co-operation of the person responsible for the operation of the equipment. Study this manual and pay particular attention to the important Safety Precautions on pages 1-4. Following these instructions will help you continue to enjoy the trouble-free performance expected of a SNAPPER product.



SNAPPER POWER EQUIPMENT

McDonough, GA • 30253

SNAPPER UNISTAT DRIVE

COMGRATULATIONS upon acquiring your new Snapper Unistat
Mower. We feel that you've made the right choice, and we at
Snapper thank you for your patronage. The Snapper Unistat Mower is
probably different than other lawn mowers you've had. It is a
fast, efficient, quality mower, and fun to drive. However, like
all power machinery, the Snapper Unistat Mower can become a
dangerous piece of equipment if handled incorrectly. Read this
entire Owner's Manual. It has important safety and maintenance
information that is essential for you to know.

Each Snapper Unistat Nower has been inspected by our quality assurance team and passed rigid testing procedures.

Be sure to read your Snapper Unistat Mower warranty.

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SAFETY

Accident Patterns to Avoid

- I. CONTACT WITH THE ROTATING BLADE--This accident usually happens when the operator is clearing the discharge chute of grass, (especially when the grass is wet), or when the operator adjusts the machine without turning it off and waiting for the blades to completely stop.
- II. PROPELLED OBJECTS--Sticks, rocks, wires and other objects can be propelled out through the discharge chute or from under the mower housing. Bystanders are particularly vulnerable.
- III. GRASS CATCHER OR GUARD—The mower shall not be operated without either the entire grass catcher or the guard in place.
- IV. OVERTURNING--This happens when riding mowers are used on steep slopes, embankments or hills. The operator in these cases can come in contact with the blades or sustain injuries during a fall.
- V. MOWER RUNNING OVER THE VICTIM--This usually happens when a riding mower is driven in reverse. The accident victims are most often young children whom, unseen by the operator of the mower, were in the area being mowed.

AT SNAPPER, WE SHARE YOUR DESIRE TO PROTECT YOURSELF,
YOUR FAMILY, YOUR FRIENDS AND YOUR NEIGHBORS FROM ACCIDENTAL
INJURY. OBSERVING AND ENFORCING THE FOLLOWING GUIDELINES WILL
HELP TO INSURE THE SAFETY OF EVERYONE.

PLEASE BE CAREFUL!

SAFETY INSTRUCTIONS AND RECOMMENDATIONS

- PEOPLE WHO OPERATE, SERVICE, OR ARE OTHERWISE ASSOCIATED with the Snapper Unistat Mower should be trained in its proper use and warned of its dangers. Before operating, adjusting, or servicing the Snapper Unistat Mower they should read and understand this entire manual and the owner's engine manual.
- AVOID CONTACT WITH MOVING PARTS. Keep hands and feet from under mowing deck and away from blades at all times. Turn engine (motor) off if you must unclog the chute.
- KEEP YOURSELF AND ALL OTHERS AWAY FROM THE DISCHARGE CHUTE at all times. Never direct the discharge of material toward bystanders. Never allow anyone near the machine while in operation.
- 4. AVOID HILLS AND SLOPES. Use extreme caution when mowing up or down slopes. NEVER mow across the face of a slope. If a slope must be ascended, back up the slope; drive forward when descending. Reduce speed and use caution to start, stop and maneuver. To prevent loss of control on a slope avoid sharp turns, sudden changes in direction, and sudden stops and starts.
- 5. DISENGAGE POWER TO MOWER BEFORE BACKING UP. Do not mow in reverse unless ABSOLUTELY necessary and then only after turning around and observing the entire area behind the mower. Go slowly. Most "running over a victim" accidents occur in reverse.
- 6. BEGINNING OPERATORS SHOULD LEARN HOW TO STEER the Snapper Unistat Mower before attempting to mow. Start with slow engine speed and drive without the blades engaged in open area until comfortable with the machine.
- KNOW HOW TO STOP QUICKLY. Know the location and operation of every control, especially how to brake and how to disengage the mower blades.
- 8. DO NOT MOVE THE STEERING LEVERS from forward position to reverse position rapidly. The speed and/or direction of travel is affected instantly by the movement of the steering levers.
- DO NOT ALLOW CHILDREN TO OPERATE MOWER. Do not allow others
 who have not had instruction to operate mower.
- 16. ALWAYS TURN ENGINE OFF AND REMOVE THE KEY before leaving the mower to prevent children and inexperienced operators from starting the engine. Never leave the mower unattended with engine running. Always wait for all moving parts and all sounds to stop before leaving the operator's seat. Always set the parking brake on an unattended mower.

- WEAR STURDY, ROUGH-SOLED WORK SHOES AND CLOSE-FITTING SLACKS and shirts. Never operate the mower in bare feet, sandals or sneakers.
- 12. NEVER CARRY PASSENGERS.
- 13. KNOW THE AREA YOU ARE TO MOW. Watch for hidden dangers such as rocks, roots, sticks, holes, bumps and drop-offs, etc. Before mowing, pick up all debris in area to be mowed. Sharp and hard objects can be propelled at a high speed and can act like schrapnel. Walk through tall grass BEFORE MOWING to make sure there are no hidden dangers. Mow higher than desired in tall grass to expose any hidden objects and/or obstacles, clean the area, and then mow to the desired height.
- 14. NEVER REFUEL A MOWER INDOORS. Allow the engine time to cool before refueling. Unseen vapors may be ignited by a spark. Always clean up spilled gasoline. Never run the engine indoors in a garage or any other closed building. Allow engine to cool before storing in any enclosure. The engine exhaust and the gasoline fumes are dangerous.
- 15. NEVER REMOVE THE FUEL CAP or add gasoline to a running or hot engine or an engine that has not been allowed to cool for several minutes after running. Always make sure the gas cap is in place.
- 16. DON'T SMOKE AROUND THE MOWER or the gasoline storage container. Gasoline fumes can easily ignite.
- 17. KEEP GASOLINE IN A WELL-VENTILATED AREA away from your living quarters and in tightly-capped safety cans. Never store mower with gasoline in the tank inside a building where fumes may reach an open flame or spark.
- 18. DISENGAGE BLADE, STOP ENGINE AND REMOVE IGNITION KEY before any servicing. Be sure all moving parts and all sounds have stopped. Let engine cool and disconnect the spark plugs so the engine cannot start by accident. A SLIGHT ROTATION OF THE BLADE COULD START THE ENGINE.
- 19. KEEP ALL NUTS, BOLTS, AND SCREWS TIGHT to be sure equipment is in safe working condition, especially blade mounting bolts.
- 20. VEHICLE SHOULD BE STOPPED AND INSPECTED FOR DAMAGE after striking a foreign object and the damage should be repaired before restarting and operating the equipment. Stop immediately and check for damage or loose parts if mower should start vibrating.

- DISENGAGE BLADES BEFORE DRIVING ACROSS WALKS or projecting objects.
- 22. KEEP SAFETY DEVICES AND GUARDS IN PLACE. If any of the safety switches become inoperable, have them repaired immediately.
- DON'T STEP OR STAND ON THE MOWER HOUSING; step or stand only on the foot deck.
- 24. WATCH OUT FOR TRAFFIC near roadways and when crossing roads.
- 25. THIS MACHINE IS NOT MEANT FOR HIGHWAY or street use. It is not a recreational vehicle and it should not be operated as such.
- 26. DO NOT USE MOWER WHEN GRASS IS WET OR SLIPPERY.
- 27. KEEP MACHINE AND ENGINE CLEAN -- free of grease, dirt, grass, leaves and other foreign build-up to reduce overheating and a possible fire hazard.
- 28. MOW ONLY DURING DAYLIGHT.
- 29. ALWAYS DISENGAGE THE MOWER BLADE CLUTCH when transporting.

SAFETY INTERLOCK SYSTEM

Your Snapper Unistat Mower is equipped with three sets of switches interlocked for your safety.

- The mower blades must be disengaged before the engine will start.
- The control levers must be in neutral position and swung outward before engine will start.
- The engine will stop if the mower clutch is engaged when the operator leaves the driver's seat.

DO NOT OPERATE MOWER IF THESE SWITCHES ARE NOT OPERATING PROPERLY

START-UP AND OPERATION

Checklist Before Operation

1. Make sure fuel tank is full. Use regular gasoline.

WARNING ARMADLE GASOLINE WITH CARE--IT IS HIGHLY FLAMMABLE. DO NOT SMOKE. ENGINE SHOULD BE OFF AND COOL. USE APPROVED GAS CONTAINER. NEVER FILL TANK INDOORS. WIPE UP ANY SPILLS. REPLACE CAP TIGHTLY.

- Make sure dirt and other foreign matter is kept out of gas tank. Use a clean funnel and gas can.
- 3. Do not mix oil with the gasoline.
- 4. Do not use white, high test or premium gasoline. Do not use de-icers, carburetor cleaners, or other such additives. Gasahol is not recommended. Using lead-free gas produces fewer combustion deposits, but it could shorten the engine life if the carburetor adjustment is too lean.
- Check the crankcase oil level. Make sure the engine is off. The mower should be parked on a level area. Don't overfill. (See your engine manual for more detailed instructions.)
- Check the hydrostatic transmission (Unistat) oil level. (See maintenance page for detailed instructions.)
- Check battery fluid level.
- Inspect V-belts.
- 9. Check tire pressure: Front tires = 24 psi
 Rear tires = 24 psi
- 10. Make sure underside of mower deck is free of grass.
- 11. Make sure mower blades are sharp and secured tightly.
- 12. Clean the air intake screen on the engine if necessary.
- 13. Perform any other maintenance as it becomes necessary. (See the "Maintenance" section of this manual.)

IMPORTANT: Before cutting grass, clutch must be broken-in as follows: With engine at full RPM engage deck until blades come to full speed and then disengage until blades come to a complete stop. Repeat 10 times to seat clutch properly.

Control Locations

Ignition Key - RH panel beside seat

Engine Throttle - RH panel beside seat

2 Steering Levers/Speed Control - In front of seat at side.

Blade Clutch Switch - RH panel beside seat.

Parking Brake Lever - RH panel beside seat.

Blade Height Adjustment Lever - RH side of deck on floor.

Choke - LH panel beside seat.

Unistat Unlock Control - On top of the right Unistat mounting block. On bottom of the left Unistat mounting block (See pg. 8)

Manual Park Lock Release Lever - At the rear of each Unistat. (See pg. 8)

TO START

- MOVE CONTROL LEVERS TO "OUT" position by pushing each one straight sideways from neutral position.
- SET PARKING BRAKE: The parking brake is on the right side beside the seat. Pull rearward to set.
- DISENGAGE MOWER BLADE clutch by moving clutch switch to OFF (left) position.
- SET ENGINE THROTTLE CONTROL to "Start" position (1/4 to 1/2 throttle). SET CHOKE CONTROL as required.
- 5. TURN IGNITION KEY to "start" position and release to "run" as soon as engine starts. NOTE: Prolonged cranking will damage starter motor and shorten the battery life.
- ADJUST ENGINE THROTTLE for desired engine speed. BACK OFF CHOKE as engine warms.
- RELEASE PARKING BRAKE: Push brake lever forward to release. It is usually necessary to swing control levers "in" and gently move control levers forward and back to release parking pawl.

IMPORTANT: If the operator is inexperienced with the Snapper Mower's type of lever steering and speed control, he/she should follow these recommendations: Disengage the mower blades. Go very slowly until thoroughly familiar with the machine. Keep away from fences, buildings, and other obstructions. While becoming familiar with the machine, move the levers smoothly and slowly. Practice until operation is smooth and efficient.

8. TO DRIVE move the control levers to the "in" position. Push both levers forward to move forward. Move levers slowly forward to increase speed. To reverse direction, pull both levers slightly back. To turn, move the lever on the side to which you want to turn slightly rearward of the other lever. To turn on a zero radius axis, go slowly and pull one lever back and push the other lever forward, depending on which direction you wish to turn.

CAUTION A

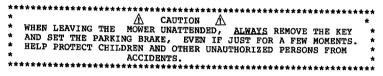
FOR SMOOTH, SAFE OPERATION MOVE THE CONTROL LEVERS FORWARD
AND REARWARD IN A GENTLE, SLOW MOTION. NEVER PULL OR PUSH
THE CONTROL LEVERS RAPIDLY, ESPECIALLY ON GRADES OR SLOPES.

- BRAKING: To brake mower you gently move both levers in the direction opposite to travel.
- 10. CUTTING HEIGHT IS ADJUSTED by using the Blade Height Adjustment Lever on the right side of the deck on the floor. Adjust HIGHER by unlocking the lock arm, then moving the lift lever to the right to clear the peg holes and pulling the release lever rearwards. Set it in one of the peg holes to secure height. Reset the lock arm. Adjust LOWER by pushing the released lever forward and setting it.
- 11. ENGAGE MOWER BLADE CLUTCH by moving the blade clutch switch to ON. The engine will not start if the blade clutch is engaged. If the operator is not in the seat, the engine will stop if the clutch is engaged.

AVOID HILLS AND SLOPES. USE EXTREME CAUTION WHEN MOWING UP OR DOWN SLOPES. NEVER MOW ACROSS THE FACE OF A SLOPE. IF A SLOPE MUST BE ASCENDED, BACK UP THE SLOPE; DRIVE FORWARD WHEN DESCENDING THE SLOPE.

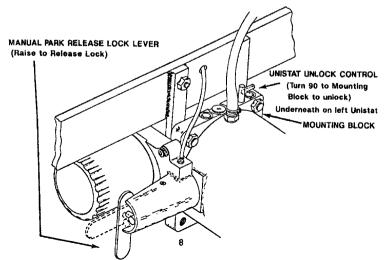
12. TO STOP:

- A. Move the control levers to the neutral position and then to the "out" position.
- B. Set the parking brake.
- C. Disengage the mower blade clutch by moving the clutch switch to the OFF (left) position.
- D. Turn the ignition key to the "lock-off" position.
- E. Remove the key and wait for all movement and all sound to cease before dismounting.



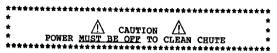
13. TO FREEWHEEL UNIT:

Unlock Unistats to freewheel unit. The Unistat unlock control must be turned 90 degrees to the mounting block of the Unistat, and the manual park lock lever turned parallel to the ground surface. The Unistat unlock control is on top of the right Unistat (shown) and the bottom of the left Unistat.



MOWING RECOMMENDATIONS

- 1. Keep mower blades sharp.
- 2. Make sure deck and discharge chute is clean.



- When mowing tall grass, make two passes, mowing off 1/2 the grass height the first pass, and then the desired height the second pass. Check for hidden dangers first.
- 4. Go slowly for trimming.
- Always cut grass with the engine at full throttle speed. This ENGINE speed allows the cutting blades to operate at optimum cutting speed. Control GROUND speed with the steering levers.

SPECIFICATIONS

Length				· · · · · · · · · · · · · · · · · · ·						70"
Width -	vith .	4200	Deck	(incl	udina	Chu	te)			53 W
Height Weight	with	48"	deck			A	 ppro	x. 9!	 50 1	42" bs.
Cutting	wid	th			4: 4:	200 300	Deck Deck			42" 48"
Blades	···			4200 4800	Deck Deck		3 - 3 -	15° 17°	Bla Bla	des des
Cutting										
Fuel Ta Not	nk -	4 gal	. tan	k has	appro	oxim	atel	v 2 d	Gal jal.	lon
Hydrost										
Unistat Unistat	011	Filt	er		N	APA	1042	, WIX	£ 51	042
Unistat oil cap	& Roacity	eserv	oir		FRA	AM P	H-34 a	32 o: ppro:	:eq x.7	uiv. qts.
Unistat	oil	type				-Syn	thet ansm		utom	atio
Engine				18	HP 01	Kohl 20	er HP	MAGN	JM T	WIN
Engine	to U	nista	t Bel	t			A	-128	Kev	lar
Engine	to De	eck E	elt -		42" oı	: 48	" De	ck	B	-85
Mower D	eck 1	3elt			4	12" 1 18" 1	Deck Deck		- L	496 105
Mower D	eck -							3/16'	' st	eel
Blade S	pind)	les -					l" top	HD be	ari bot	ngs tom
Front T	ire -						- 4.	10/3.	.50	x 4
Drive T	ire -				1 nlv		2 A	v 8.0	7Ø	10

MAINTENANCE

 Λ CAUTION Λ

BEFORE PERFORMING ANY MAINTENANCE, TURN OFF ENGINE, REMOVE KEY AND DISCONNECT SPARK PLUGS. USE EXTREME CARE WHEN WORKING ON MACHINERY. DO NOT WEAR WATCH OF JEWELRY, DO NOT WEAR LOOSE FITTING CLOTHES, AND OBSERVE ALL COMMON SAFETY PRACTICES WITH TOOLS.

MAINTENANCE SCHEDULE

Service	When
check crankcase oil level	before each use
clean air intake screen	after each use
clean grass under deck	after each use
check tire pressure	every 10 hours
check battery fluid	every 10 hours
sharpen mower blades	every 10 hours
clean air filter element	every 10 hours
check hydrostatic transmission fluid	every 25 hours
change engine crankcase oil	25hrs.(5 hrs. break-in)
check drive belts (3)	every 25 hours
replace air filter element	annually
check spark plugs	annually
service battery	annually
lubricate deck fittings-three "shots"	only every 100 hrs.
lubricate front wheels	annually
replace fuel filter or filters	annually
change hydrostatic transmission fluid and filter on each UNISTAT	annually or 500 hours(100 hrs. break-in)
decals	Replace when illegible Write factory for free replacement

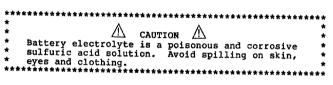
MAINTENANCE INSTRUCTIONS

1. ENGINE:

For complete maintenance and operating information for your engine, please refer to your engine operating and maintenance instructions furnished by the engine manufacturer and included in your Snapper Unistat mower information packet.

NOTE: Air intake screen must be kept clean. If plugged, engine may be seriously damaged by over heating.

2. BATTERY:



Keep the electrolyte level above the plates in each cell by adding distilled water as it becomes necessary. Add water just before operating the mower to mix the water with the solution. Be careful not to overfill the battery—the electrolyte solution is corrosive and can cause damage to surrounding metal parts if it should spill. Keep your battery at 1.260 specific gravity charge. When taking the battery out of the mower for servicing, make sure to connect the cables to the battery exactly as they were prior to removal.

Keep the battery clean. Remove corrosion around the battery terminals by applying a solution of one part baking soda to four parts water. Coat all exposed terminal surfaces with a light layer of grease or petroleum jelly to prevent corrosion.

3. Tires

Correct tire pressure is essential for efficient operation of the mower. Check tire pressures periodically. Inflate tires to the pressures listed below:

> Front Tires: 24 PSI Rear Tires: 24 PST

Lug nuts should be regularly checked for tightness.

Mower Blades

Check sharpness of mower blades after every 10 hours of operation. To sharpen the blades proceed as follows:

> ****** CAUTION STOP ENGINE, REMOVE IGNITION KEY AND REMOVE SPARK PLUGS FOR SAFETY. **********

A. Remove bolt, lockwasher, cup washer, and large flat washer mounting blade on shaft. Remove blade.

В. Sharpen blade with a hand file, electric grinder or an electric blade sharpener. Wear gloves and eye protection when sharpening. Grind blade at original bevel.

c. Check balance of blade by positioning the blade on a nail or blade balance pedestal. Grind the blade on the end that is heavier, until both sides balance.

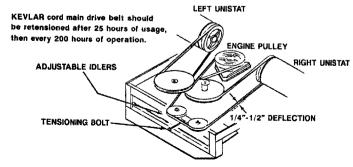
D. Install blade, large flat washer, cup washer, lockwasher and bolt. Make sure to tighten the bolt to 60ft.-lbs.

5. V-Belts

There are 3 V-belts on your Snapper Unistat Mower. The two deck belts are equipped with spring-loaded belt tighteners and do not require tightening adjustments. They should be checked after every 25 hours of use to make sure they are in good operating condition. Replace any belts found to be in poor condition.

The main drive belt for the Unistats is a Kevlar cord belt and requires little maintenance. Tension should be checked after the first 25 hours of operation, then every 200 hours thereafter. Readjust to 1/4"-1/2" deflection by tightening the adjustable idlers at the rear bumper. See item #12 on page 16.

NOTE: After adjustment unit should be run for a few minutes to distribute tension in the entire length of belt. Then recheck the tension.



7. Lubrication

- A. Engine
- Follow engine manufacturer's recommendations.
- B. Wheels
- Lubricate front wheel axles after every 100 hours of operation.

 C. Deck Spindles
 - Lubricate each spindle with "three shots only" every 100 hours of operation.
- D. <u>Hydrostatic Transmission (Unistat)</u>: Checking and Replenishing
 - Check the oil level in the reservoir after every 25 hours of usage.

*

* IMPORTANT: CLEAN THE DIRT FROM AROUND THE RESERVOIR *

* BEFORE REMOVING THE CAP. USE ONLY A SYNTHETIC *

* UNIVERSAL AUTOMATIC TRANSMISSION FLUID. USE OF ANY *

* OTHER FLUID WILL VOID THE UNISTAT HYDROSTAT WARRANTY. *

- a. Remove oil reservoir cap.
- b. Check fluid level with dipstick in reservoir. The level shown is the cold oil mark. If the unit has been running, the oil will be above this mark.
- c. Do not over fill. If unit is overfilled, heat expansion will cause it to run over.
- d. When checking oil level be very careful to keep the reservoir clean and to fill only with clean oil. Dirt or water in the oil can ruin the hydrostatic transmission (Unistat).
- ii. Hydrostatic fluid should be changed annually or every 500 hours, whichever comes first. Unistats should be refilled using only SYNTHETIC Universal Automatic Transmission Fluid. The fluid is changed as follows:
 - a. Park mower on a level surface, stop engine, remove drain plugs from both pump and motor housings on Unistat. Allow the fluid to drain out. Remove the filter at this time.
 - b. Reinstall the bottom drain plugs and new filter.
 - c. Refill Unistat through the reservoir. This will require approximately 7 quarts of the ATF.
 - Start engine and add oil as required to maintain level in the reservoir. Replace oil reservoir cap.
 - e. Check reservior level after running 1/2 hour.

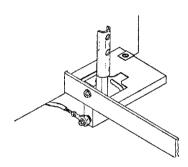
8. Steering Lever Adjustment

If the machine travels either forward or rearward when the steering levers are in the neutral position, elevate rear wheels clear of ground and adjust as follows:

A Left Wheel Adjustment:

- Remove the footdeck cover to gain access to the rotary mount blocks.
- b. If control lever does not rotate freely into neutral slot with no forward or back pressure on the handles, adjust as follows: Remove the bolt holding the end of the control linkage to the rotary block. Loosen the locking nut and adjust the linkage to fit. Neutral is found in the Unistat internally. When
- c. properly set, retighten the nuts and replace the footdeck cover.

B Right Wheel Adjustment: The right wheel is adjusted similiarly.



9. Parking Brake Adjustment

The parking brake is automatically adjusted in the Unistat. If the park brake fails to hold, repair of the Unistat is required.

10. Hydrostatic Transmission (Unistat) After every 10 hours or operation, lift the seat and be sure that the cooling fins of the Unistats are clean. Never wash across top of reservoir with water or steam. Excessive accumulation of oil, dirt, or trash may cause the Unistat to over heat. Lubricate Unistat as per guidelines under Hydrostatic Transmission (Unistat) "Lubrication" section of this manual. (see pq. 14)

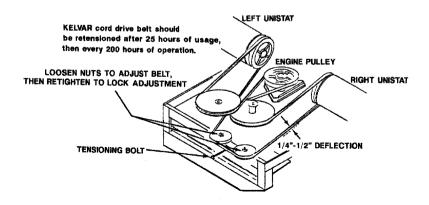
11. Scalper roller bolts

Scalper roller bolts should be tightened until the spacing bushing will not turn relative to the scalper bracket to prevent undue wear on the end of the spacer bushing and the scalper bracket. The proper torque is from 17 to 20 ft. lb.

12. Unistat drive belt tension adjustment

In normal use the Unistat drive belt tension should be checked after the first 25 hours of use for normal wear in and stretch. It may be adjusted as follows:

- a. Loosen the two nuts holding the Vee pulleys until the pulley idler slide can be just moved relative to the mounting bracket. This will require backing off these nuts approximately one turn.
- b. Tighten the tension adjust bolt until the belt is tight enough to prevent belt slippage. Belt should deflect approximately 1/4" to 1/2" under moderate pressure. Do not over tighten.
- c. Retighten the nuts holding the pulleys to lock the adjustment. Tighten tensioning bolt 1/4 turn to set lockwasher. This will prevent loosening of tension bolt.



Trouble Shooting Checklist

1. Engine won't turn over.

Mower blades engaged: Drive not in neutral:	disengage blades. neutralize control
Dead Battery:	consult dealer.

Engine will turn over; won't run.

No gas:	refuel.
	clean or replace
Over or under choked	fuel filters
spark plugs not Ilring:	- check spark plug
Carburetor maladjustment:	ion and reset gap.*
Ignition switch:	adductment #

3. Hard to start engine.

clean fuel line and check fuel
filter. consult dealer. check spark plug
wires. check spark plug condition and
reset gap.* consult dealer. readjust
carburetor* or consult dealer for carburetor service.

^{*}NOTE: See engine manual for engine adjustments.

4.	Engine starts, but cuts out.	
	Water in gas:	drain old gas and replace with new
	Clogged fuel line:	gas. check fuel filter and clean fuel
	Vent in fuel cap plugged:Faulty fuel pump:	4. 4
	***********	*****
5.	Engine knocks.	
	Low oil level:	consult dealer. drain gas and
	Overheated engine:	higher octane gas shut off engine and allow to cool
	*********	*****
6.	Engine sometimes skips at higher speeds.	
	Incorrect ignition timing:	readjust
	Faulty, fouled or incorrectly gapped plug:	carburetor* check spark plug condition and gap
	*******	*****
7.	Engine overheated.	
	Air intake screen or fins clogged:	
	Fuel mixture too lean: Oil level too low or too high:	
	Improper ignition timing:	

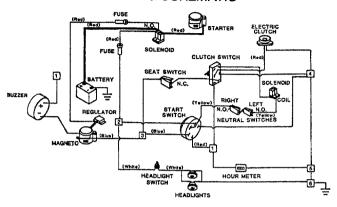
8.	Engine idles poorly.			
	Carburetor maladjustment:			
	Improper spark plug gap:	carburetor.* check the condition and gap of spark plug.*		

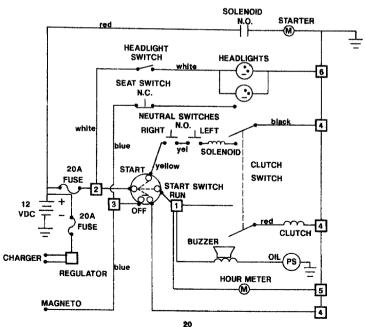
9.	Engine backfires.			
	Carburetor maladjustment:	readiust		
	NOTE: Engine backfire on shutoff is common.	carburetor.*		
	**************	*****		
10.	Engine runs, but mower won't move forward.			
	Unistat locks in unlock position:			
	Drive belt broken:	position. replace		
	Unistat oil low:			
	Not enough tension on drive belt:	check tension		
	Bad Unistat:	consult dealer.		
	***********	****		
11.	Mower loses power or Unistat overheats.			
	Hydro. trans. oil too low or too high:	adjust as		
	Unistat damage:			

12. Engine stalls when blades are engaged.

^{*}NOTE: See engine manual for engine adjustments.

WIRING SCHEMATIC





IMPORTANTI

Use ONLY a SYNTHETIC Automatic Transmission Fluid in the Hydrostat transmissions (Unistat). Use of petroleum base transmission fluid will void the warranty of the Unistat.

If synthetic transmission fluid is not locally available, contact one of the following sources.

MOBIL PRODUCT SERVICES, at 1-899-662-4525. These people will be glad to refer you to a distributor or dealer in your area, who handles this product.

AMSOIL PRODUCT CENTERS - The nearest Product Center will be happy to refer you to a dealer, or to help you obtain their product